

SIT505S

Photo Interrupter

DIMENSIONS

Unit:mm

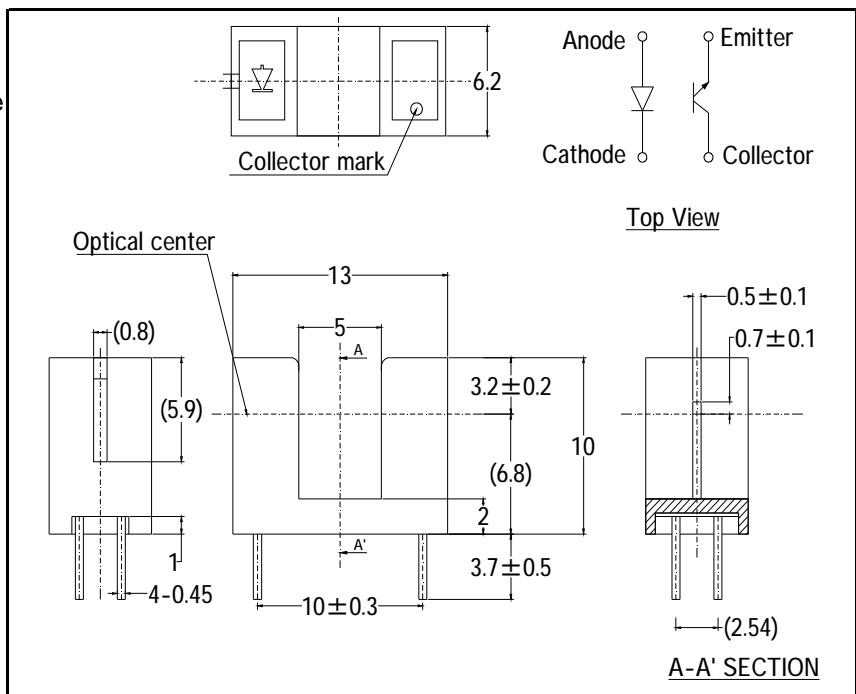
The SIT505S is a photointerrupter high-performance standard type, combines high-output GaAs IRED with high sensitive phototransistor.

Features

- PCB direct mount type
- GAP:5mm
- RoHS Compliance

Applications

- Printers
- FAX
- Copiers
- Scanners
- Amusement machines



MAXIMUM RATINGS

(Ta=25°C)

Item	Symbol	Ratings	Unit
Input	P _D	100	mW
	I _F	60	mA
	V _R	5	V
Output	P _C	100	mW
	I _C	40	mA
	V _{CEO}	30	V
	V _{ECO}	5	V
	Operating temperature	Topr.	-20~+85 °C
	Storage temperature	Tstg.	-30~+85 °C
	Soldering temperature *1	Tsol.	260 °C

* 1 The soldering should be 1mm away from bottom of the holder. t=within 3s

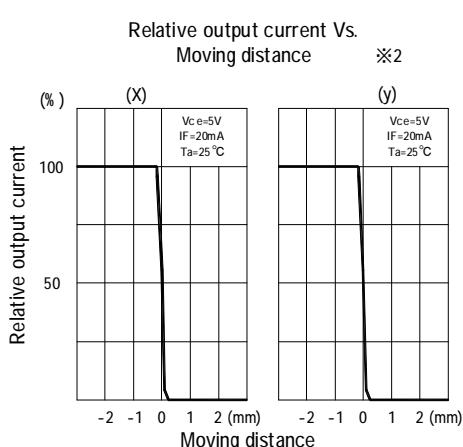
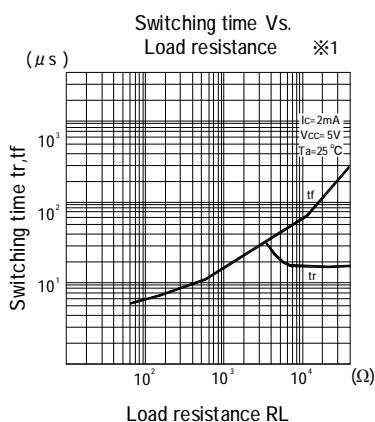
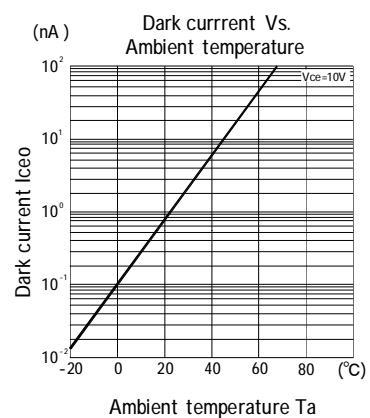
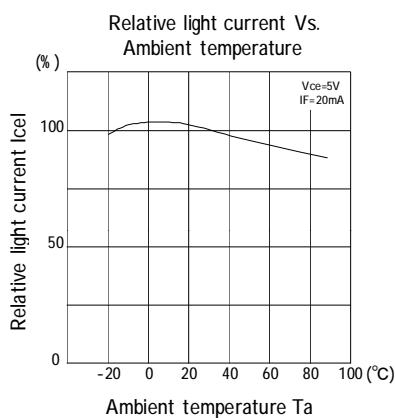
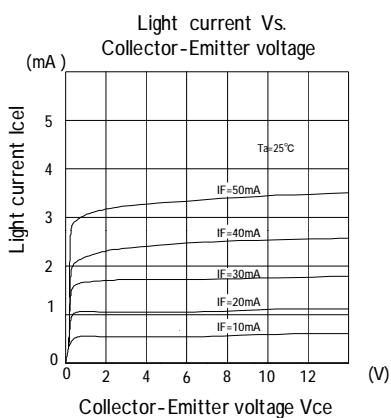
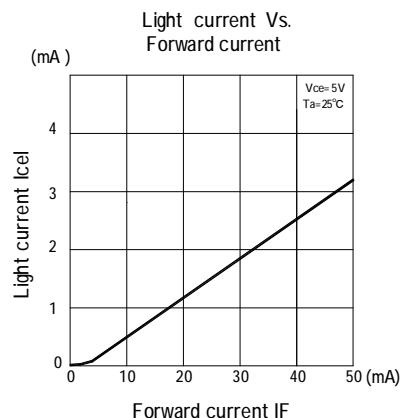
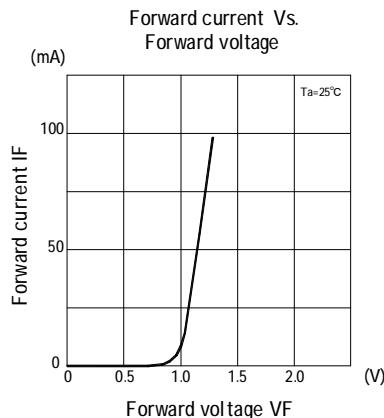
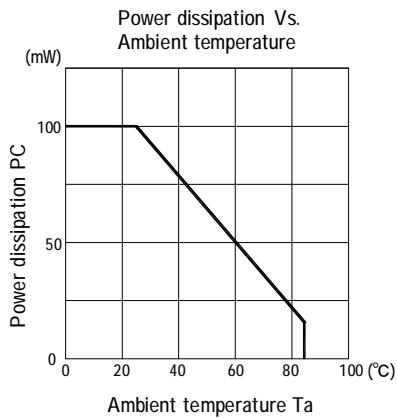
Elector-Optical Characteristics

(Ta=25°C)

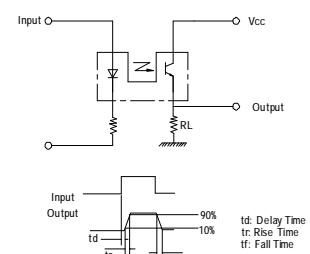
Item	Symbol	Conditions	Min	Typ	Max	Unit
Input	V _F	I _F =20mA	-	1.2	1.4	V
	I _R	V _R =5V	-	-	10	µA
	λ _P	I _F =20mA	-	940	-	nm
Output	I _{CEO}	V _{CE} =10V, E _V =0lx	-	1	100	nA
Transm ission	I _C	I _F =20mA, V _{CE} =5V, Non-shading	0.5	-	10	mA
	I _{CEOD}	I _F =20mA, V _{CE} =5V, Shading	-	0.5	10	µA
	V _{CE} (sat)	I _F =20mA, I _C =0.1mA	-	0.15	0.4	V
	tr	I _C =2mA, V _{CC} =5V, R _L =100Ω	-	4	-	µs
	tf		-	5	-	µs

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*1 Switching time measurement circuit



*2 Method of measuring position detection characteristic

